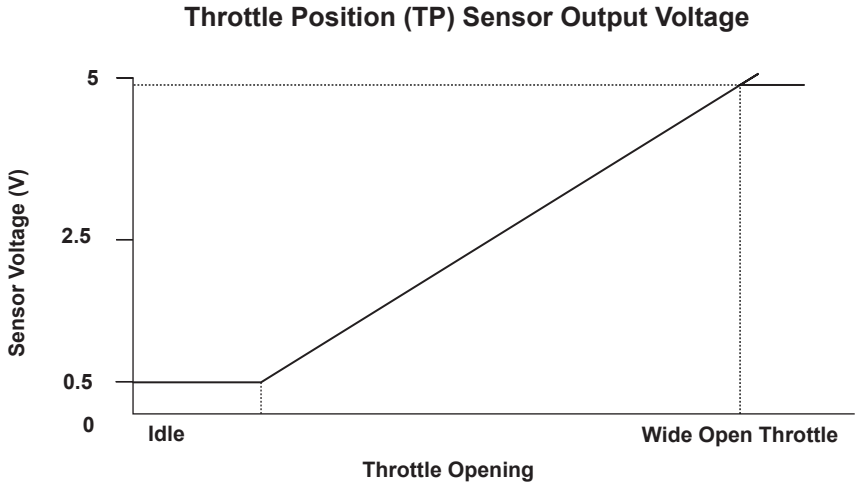
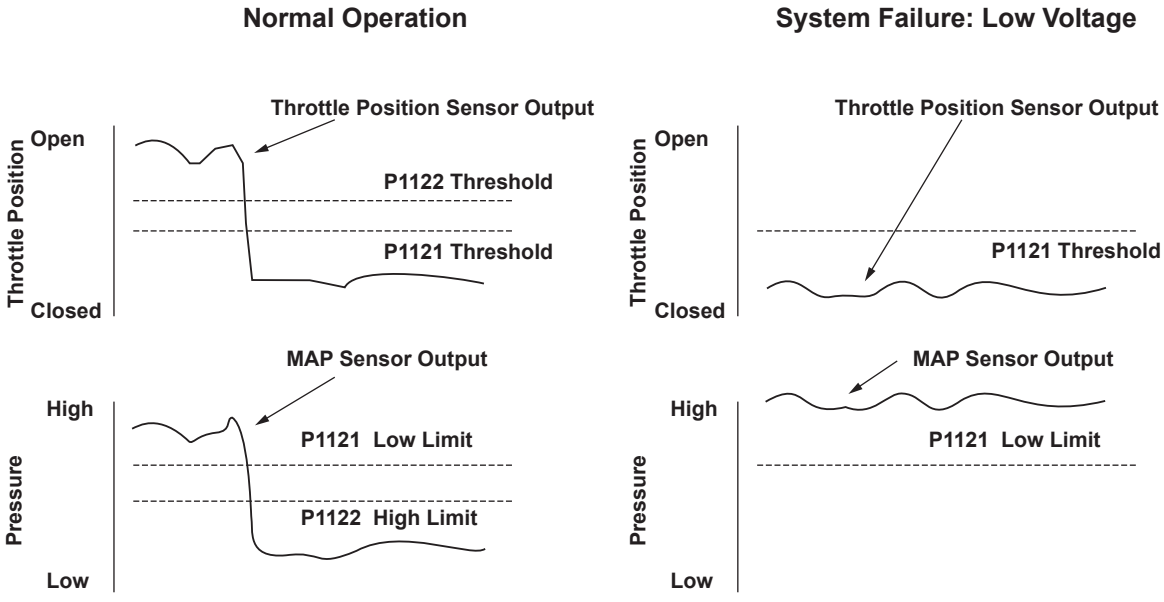
DTC P1121: Throttle Position (TP) Sensor Lower Than Expected



P0122-9672



P1121-9771

General Description

The throttle position (TP) sensor detects the position of the throttle valve. When the throttle valve is open (low-vacuum), the manifold absolute pressure (MAP) sensor outputs a high MAP value, and when the throttle valve is closed (high-vacuum), it outputs a low MAP value.

If the TP sensor detects a throttle position that is less than the set value when the MAP sensor outputs a higher MAP value (higher pressure) than the set value, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Once per driving cycle
Sequence	None
Duration	2 seconds or more
DTC Type	Two drive cycles, MIL ON

Enable Conditions

Condition	Minimum	Maximum
Engine coolant temperature	167ºF (75ºC)	—
Engine speed	1,400 rpm	6,000 rpm
Vehicle speed	15 mph (24 km/h)	75 mph (120 km/h)
MAP value	83 kPa (620 mmHg, 24.4 in.Hg)*	—
	50 kPa (368 mmHg, 14.5 in.Hg)**	
	62 kPa (465 mmHg, 18.3 in.Hg)**, *1	
No active DTCs	ECM/PCM, A/F Sensor*1, A/F Sensor Heater*1, Primary HO2S*2, Primary HO2S Heater*2, MAP, CKP, ECT, TP, CYP, EGR, BARO, IAC, VSS, VTEC System, Fuel System, Misfire	

* : Atmospheric pressure is 103 kPa (776 mmHg, 30.5 in.Hg).
** : Atmospheric pressure is 61 kPa (459 mmHg, 18.0 in.Hg).
*1: F23A4 engine
*2: F23A1, F23A5 engines

Malfunction Threshold

The throttle position is 4.1º *3, 3.7º *4 or less at 1,000 rpm, 8.8º *3 10.7º *4 or less at 3,000 rpm for at least 2 seconds.
*3: F23A1, F23A4 engines
*4: F23A5 engine

Driving Pattern

1. Start the engine. Hold the engine at 3,000 rpm with no load (in park or neutral) until the radiator fan comes on.
2. Drive the vehicle at a steady speed between 15 - 75 mph (25 - 120 km/h) (the set MAP value or more) for at least 2 seconds.

- If you have difficulty duplicating the DTC, retest after turning off electrical components such as the audio system and A/C, and try a different gear position.
- Drive the vehicle in this manner only if the traffic regulations and ambient conditions allow.

Diagnosis Details

Conditions for illuminating the MIL

When a malfunction is detected during the first drive cycle, a Temporary DTC is stored in the ECM/PCM memory. If the malfunction recurs during the next (second) drive cycle, the MIL comes on and the DTC and the freeze frame data are stored.

Conditions for clearing the MIL

The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.
The MIL, the DTC, the Temporary DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.